1. A substantially pure polypeptide comprising an amino acid sequence at least 70% identical to any one of SEQ ID NOs:1, 3, 22, or 27, wherein the polypeptide is a transporter of an organic cation.

2. The polypeptide of claim 1, wherein the amino acid sequence is at least 80% identical to any one of SEQ ID NOs:1, 3, 22, or 27.

3. The polypeptide of claim 1, wherein the amino acid sequence is at least 90% identical to any one of SEQ ID NOs:1, 3, 22, or 27.

4. The polypeptide of claim 1, wherein the amino acid sequence is at least 95% identical to any one of SEQ ID NOs:1, 3, 22, or 27.

5. A substantially pure polypeptide comprising the sequence of any one of SEQ ID NOs:1, 3, 22, or 27.

6. A substantially pure polypeptide comprising the amino acid sequence of any one of SEQ ID NOs:1, 3, 22, or 27, with up to 30 conservative amino acid substitutions, wherein the polypeptide is a transporter of an organic cation.

7. A substantially pure polypeptide encoded by a nucleic acid that hybridizes under stringent conditions to

a probe the sequence of which consists of any one of SEQ ID NOs:2, 4, 23, or 28, wherein the polypeptide is a transporter of an organic cation.

8. An isolated nucleic acid encoding the polypeptide of claim 1.

9. An isolated nucleic acid encoding the polypeptide of claim 5.

10. An isolated nucleic acid encoding the polypeptide of claim 6.

11. An isolated nucleic acid comprising a strand that hybridizes under stringent conditions to a single stranded probe, the sequence of which consists of any one of SEQ ID NOs:2, 4, 23, or 28, or the complement of any one of SEQ ID NOs:2, 4, 23, or 28.

12. The isolated nucleic acid of claim 11, wherein the nucleic acid encodes a polypeptide that is a transporter of an organic cation.

13. The nucleic acid of claim 12, wherein the amino acid sequence of the polypeptide comprises any one of SEQ ID NOs: 1, 3, 22, or 27.

14. The nucleic acid of claim 11, wherein the strand is at least 15 nucleotides in length.

15. The nucleic acid of claim 14, wherein the nucleic acid is an antisense nucleic acid that inhibits expression of a polypeptide comprising any one of SEQ ID NOs: 1, 3, 22, or 27.

16. A vector comprising the nucleic acid of claim 8.

17. A vector comprising the nucleic acid of claim 9.

18. A vector comprising the nucleic acid of claim 10.

19. A vector comprising the nucleic acid of claim 11.

20. A vector comprising the nucleic acid of claim 12.

21. A cultured host cell comprising the nucleic acid of claim 8.

22. A cultured host cell comprising the nucleic acid of claim 9.

23. A cultured host cell comprising the nucleic acid of claim 10.

24. A cultured host cell comprising the nucleic acid of claim 11.

25. A cultured host cell comprising the nucleic acid of claim 12.

26. An antibody that specifically binds to the polypeptide of claim 1.

27. A method of producing a polypeptide, the method comprising isolating the polypeptide from the cultured host cell of claim 21.

28. The polypeptide of claim 1, wherein the polypeptide comprises the sequence Xaa1-Xaa2-Xaa3-Xaa4-Xaa5-Xaa6- Xaa7-Gly-Arg-Xaa8-Xaa9-Xaa10-Xaa11-Xaa12, wherein

Xaa1 is Leu, Ile, Val, Met, Ser, Thr, Ala, or Gly;

Xaa2 is Leu, Ile, Val, Met, Phe, Ser, Ala, or Gly;

Xaa3 is any amino acid;

Xaa4 is Leu, Ile, Val, Met, Ser, Ala Xaa5 is Asp or Glu;

Xaa6 is any amino acid;

Xaa7 is Leu, Ile, Val, Met, Phe, Tyr, Trp, or Ala;

Xaa8 is Arg or Lys;

Xaa9 is any amino acid;

Xaa10 is any amino acid;

Xaa11 is any amino acid; and

Xaa12 is Gly, Ser, Thr, or Ala.